Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of ion attachment mass spectrometry for attaching positively charged metal ions emitted from an ion emitter to a gas to be detected, which is introduced into an ionization chamber, in an atmosphere of a third emponent body gas so as to ionize the gas to be detected by the metal ions, then performing measurement of mass of the gas by mass spectrometry, comprising

a step of performing the measurement by selecting one third component body gas from a plurality of third component body gases prepared in advance.

2. (Currently Amended) A method of ion attachment mass spectrometry for attaching positively charged metal ions emitted from an ion emitter to a gas to be detected, which is introduced into an ionization chamber, in an atmosphere of a third emponent body gas so as to ionize the gas to be detected by the metal ions, then performing measurement the mass of the gas by mass spectrometry, comprising

a step of performing the measurement by a plurality of times in different third component-body gases, and

a step of distinguishing an interference peak arising due to the third component <u>body</u> gas from the data obtained from these measurements.

3. (Currently Amended) A method of ion attachment mass spectrometry for attaching positively charged metal ions emitted from an ion emitter to a gas to be detected, which is introduced into an ionization chamber, in an atmosphere of a third component-body gas so as to ionize the gas to be detected by the metal ions, then performing measurement the mass of the gas by mass spectrometry, comprising

a step of performing the measurement by selecting one ion emitter from a plurality of ion emitters prepared in advance.

4. (Currently Amended) A method of ion attachment mass spectrometry for attaching positively charged metal ions emitted from an ion emitter to a gas to be detected, which is introduced into an ionization chamber, in an atmosphere of a third component body gas so as to ionize the gas to be detected by the metal ions, then performing measurement of mass of the gas by mass spectrometry, comprising

a step of preparing a plurality of different ion emitters,

a step of performing the measurement by a plurality of times by different ion emitters, and

a step of distinguishing an interference peak arising due to the third component-body gas from the data.

5. (Currently Amended) An apparatus for ion attachment mass spectrometry comprising,

an ion emitter for emitting positively charged metal ions,

an ionization chamber for attaching the metal ions to a gas to be detected,

a third eomponent body gas introduction mechanism provided with a plurality of types of third eomponent body gases and introducing one type of third component body gas selected from the plurality of types of third component body gases into the ionization chamber, and

a mass spectrometer for performing mass spectrometry to detect the gas to which the metal ions are attached.

6. (Currently Amended) An apparatus for ion attachment mass spectrometry comprising,

an ion emitter for emitting positively charged metal ions, an ionization chamber for attaching the metal ions to a gas to be detected. a third component body gas introduction mechanism provided with a plurality of types of third component body gases and introducing one type of third component body gas selected from the plurality of types of third component body gases into the ionization chamber,

a mass spectrometer for performing mass spectrometry to detect the gas to which the metal ions are attached, and

a data processor for processing data given from said mass spectrometer for distinguishing an interference peak arising due to the third component body gas from a plurality of sets of measurement data based on a plurality of different types of third component body gases.

7. (Currently Amended) An apparatus for ion attachment mass spectrometry comprising,

a plurality of types of ion emitters for emitting different types of positively charged metal ions, one of the plurality of types of ion emitters being selected for emission of the metal ions,

an ionization chamber for attaching the metal ions to a gas to be detected,

a third component body gas introduction mechanism for introducing a third component body gas into said ionization chamber,

a mass spectrometer for performing mass spectrometry to detect the gas to which the metal ions are attached, and

a data processor for processing data given from said mass spectrometer.

8. (Currently Amended) An apparatus for ion attachment mass spectrometry comprising,

a plurality of types of ion emitters for emitting different types of positively charged metal ions, one of the plurality of types of ion emitters being selected for emission of the metal ions.

an ionization chamber for attaching the metal ions to a gas to be detected, a third component body gas introduction mechanism for introducing a third component body gas into said ionization chamber,

a mass spectrometer for performing mass spectrometry to detect the gas to which the metal ions are attached, and

a data processor for processing data given from said mass spectrometer for distinguishing an interference peak arising due to a said ion emitter from a plurality of sets of measurement data based on the different ion emitters.

- 9. (Original) An apparatus for ion attachment mass spectrometry as set forth in claim 7, wherein said plurality of types of ion emitters are arranged at positions offset from the axis.
- 10. (Original) An apparatus for ion attachment mass spectrometry as set forth in claim 8, wherein said plurality of types of ion emitters are arranged at positions offset from the axis.